DNV·GL

Certificate No:
TAE00002T8

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Socket Outlet

with type designation(s)
VARITAIN PushIn

Issued to
WISKA Hoppmann GmbH
Kaltenkirchen, Germany

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Rated voltage (V)	**500 V**
Rated current (A)	**32 A**
Degree of protection	**IP 56 /IP 67**

Issued at **Hamburg** on **2018-05-02**

This Certificate is valid until **2023-05-01**.

for **DNV GL**

DNV GL local station: **Hamburg Electrical Systems & Automation**

Approval Engineer: **Uwe Supke**

Arne Schaarmann
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Product description

Socket-Outlet-System for reefer containers with power on LED light

Type	"VARITAIN PushIn" with max. 11 outlets for fixed installation
Rated voltage:	max. 500V AC
Frequency:	40-60Hz
Degree of protection:	IP56 / IP67
Ambient temperature:	-25°C up to +45°C
Suitable for open deck:	Yes
Each CEE socket outlet:	3 pole + E, max. 500V AC, 32 A with circuit breaker WISKA- MCCB-.... and mechanical interlocking.

Rated short circuit making and breaking capacity:

- WISKA- MCCB-10kA Icm/Icu: 400V/105/50kA, 440V/17/10kA, 500V/17/10kA
- WISKA- MCCB-25kA Icm/Icu: 400V/105/50kA, 440V/52,2/25kA, 500V/17/10kA
- WISKA- MCCB-10kA, -25kA + CL-PKZ0 Icm/Icu: 400V/220/100kA, 440V/220/100kA

Material of casing: stainless steel W.N. 1.4301(SUS 304) coated or 1.4571 (SUS 316) or higher grade

Application/Remark

Installation and operating instruction of the manufacturer to be followed.
The TA was carried out according to DNV GL Class Guideline DNVGL-CG-0339. MSC.1/Circ.1352 should be taken into account when installing on a vessel if mandatory by the Administration.

Type Approval documentation

Tests carried out

Applicable tests according DNV GL Class Guideline DNVGL-CG-0339.
IEC 60529:2001, IEC 60309:2012, ISO 1496-2: 2008

Marking of product

The products to be marked with:

- Manufacturer name
- Model name
- Serial number
- Power supply ratings
- Degree of protection

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.
The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.
END OF CERTIFICATE